

U.S. Appln. No. 10/523,861
Reply to Final Office Action dated July 11, 2006

PATENT
450100-05043

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

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Listing of Claims

1-9. (Canceled)

10. (Currently Amended) An electronic device, comprising:
a rotary operating unit that is freely rotating, configured to accept rotating operation of a user,
an active element for detecting rotation of said rotary operating unit, and
control means for controlling a power supply to said active element, wherein
the electronic device has three operation modes, ~~and~~
said control means controls the power supply to said active element depending on
said modes, and
said active element generates pulse signals having a phase difference depending on a direction of rotation of said rotary operating unit.

11. (Previously Presented) An electronic device according to claim 10,
wherein
said active element includes a first and second active elements and
said control means controls the power supply to one of said first and second active elements in at least one of said three modes.

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12. (Previously Presented) An electronic device according to claim 11,
further comprising:

first and second power-supply control means for switching on and off the power
supplied to each of said first and second active elements, wherein

said control means makes said first and second power-supply control means on in
a normal use mode, and makes said first power-supply control means on and said second power-
supply control means off in a first stand-by mode.

13. (Previously Presented) An electronic device according to claim 12,
wherein

said control means further makes said first and second power-supply control
means off in a second stand-by mode where key operation setting is forbidden.

14. (Previously Presented) An electronic device according to claim 12,
further comprising:

pulse-detecting means for detecting a pulse signal transmitted from the first active
element in response to rotation of said rotary operating unit to generate an interrupt signal,
wherein

said control means makes said second power-supply control means on by the
interrupt signal from said pulse-detecting means when said rotary operating unit is operated to
rotate in said first stand-by mode.

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15. (Previously Presented) An electronic device according to claim 14,
wherein
said control means makes said first power-supply control means or both of the
first and second power-supply control means on, when key operation forbidden setting is
released in said second stand-by mode.

16. (Previously Presented) An electronic device according to claim 11,
further comprising:
power-supply control means for switching on and off the power supply to said
second active element, wherein

said control means makes said power-supply control means on in a normal use
mode and makes said power-supply control means off in a stand-by mode.

17. (Previously Presented) An electronic device according to claim 16,
further comprising:
pulse-detecting means for detecting a pulse signal transmitted from the first active
element in response to rotary operation of said rotary operating unit to generate an interrupt
signal, wherein

said control means makes said power-supply control means on by the interrupt
signal from said pulse-detecting means, when said rotary operating unit is operated to rotate in
said stand-by mode.

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18. (Previously Presented) An electronic device according to claim 12,
wherein
said electronic device has a structure in which a first casing and a second casing
are connected to be capable of being opened and closed, and
said control means shifts to the second stand-by mode and makes said first and
second power-supply control means off when said casings are closed, and shifts to the normal
use mode and makes said first and second power-supply control means on when said casings are
opened.

19. (Previously Presented) An electronic device according to claim 11,
further comprising:
a third power-supply control means for switching on and off power supply to a
backlight for lighting display means, wherein
said control means makes said first power-supply control means on and makes
said second and third power-supply control means off, when shifted from said normal use mode
to said first stand-by mode.